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NO. EM 4
PART 2

Your attention is invited

NEWS OF THE ENGINEERING MECHANICS DIVISION OF ASCE

AMERICAN SOCIETY OF CIVIL ENGINEERS FOUNDED 1852

JOURNAL OF THE ENGINEERING MECHANICS DIVISION
PROCEEDINGS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS

DIVISION ACTIVITIES

ENGINEERING MECHANICS DIVISION

Proceedings of the American Society of Civil Engineers

NEWS

August, 1961

CHAIRMAN'S ANNOUNCEMENT

The readers of the EMD Newsletter undoubtedly have noted that on March 25 during the Executive Committee sessions held in Chicago, it was recommended that a new Committee on Stability be established. The purpose of this new committee was recorded to be as follows:

> "to foster analytical and experimental studies in the fields of elastic and inelastic stability of structural elements and systems."

Recently, this committee has been authorized, and the Executive Committee has designated Dr. Ernest Masur of the University of Michigan as the chairman of this committee. The committee is now being organized. Persons interested in working on this committee may express such a preference by writing directly to Dr. Masur.

E. P. Popov, Chairman
EMD Executive Committee

FORTHCOMING MEETINGS OF INTEREST

August 16-18, 1961 - University of Illinois, Urbana, Illinois

TENTH ANNUAL HYDRAULICS CONFERENCE, sponsored by the Hydraulics Divison of ASCE with the Central Illinois Section of ASCE and the University of Illinois as co-hosts. Technical sessions cover the following topics:

GROUND WATER HYDROLOGY
HYDRAULIC STRUCTURES
SURFACE WATER HYDROLOGY
SEDIMENTATION
CAVITATION IN HYDRAULIC STRUCTURES
HYDROMETEOROLOGY AND FLOOD CONTROL

Full details may be found in the June 1961 issue of Civil Engineering. Professor James M. Robertson, 125 Talbot Laboratory, University of Illinois, Urbana, Illinois is in charge of registration.

Note.—No. 1961-31 is Part 2 of the copyrighted Journal of the Engineering Mechanics Division, Proceedings of the American Society of Civil Engineers, Vol. 87, No. EM 4, August, 1961.

August 28-30, 1961 - University of Washington, Seattle, Wash.

WEST COAST CONFERENCE OF APPLIED MECHANICS, sponsored by the Applied Mechanics Division of ASME and the Engineering Mechanics Division of ASCE. The technical program follows:

Monday, August 28

9:00 a.m. - GENERAL LECTURE

ON THE CONSTRUCTION OF CONSTITUTIVE EQUATIONS
William Prager, Brown University

10:15 a.m. - Session on PLASTICITY, THERMOELASTICITY

THE STRESS FIELD PRODUCED BY LOCALIZED PLASTIC SLIP ON A FREE SURFACE
T. H. Lin and T. K. Tung, University of California at Los Angeles

ELASTIC-PLASTIC DESIGN OF RECTANGULAR PRESSURE TUBING
R. D. Gauthier, Dow Chemical Co., and E. E. Weibel, University of Colorado

TRANSIENT THERMOELASTIC PROBLEM FOR AN INFINITE MEDIUM WITH A SPHERICAL CAVITY EXHIBITING TEMPERATURE DEPENDENT PROPERTIES
J. Nowinski, University of Texas

10:15 a.m. - Session on FLUID MECHANICS

LINEARIZED TRANSONIC FLOW ABOUT SLENDER BODIES AT ZERO ANGLE OF ATTACK
Paul F. Maeder, Brown University, and H. U. Thommen, General Dynamics Corp.

MIXING OF COMPRESSIBLE FLUIDS
E. D. Kennedy, General Applied Sciences Laboratories, Inc.

AN APPROXIMATE ANALYTICAL SOLUTION FOR THE STEPPED BEARING
C. F. Kettleborough, The University of New South Wales

2:00 p.m. - Session on DYNAMICS OF SOLIDS

ON THE APPLICATION OF VARIATIONAL METHODS TO INITIAL VALUE PROBLEMS IN DYNAMICS
W. Stuiver, IBM Research Laboratory

DYNAMICS OF NON-HOLONOMIC SYSTEMS
Thomas R. Kane, University of Pennsylvania

AN ADDITION TO THE THEORY OF WHIRLING
Thomas R. Kane, University of Pennsylvania

NATURAL FREQUENCIES OF VIBRATION OF FIXED-FIXED SANDWICH BEAMS
M. E. Raville, En-Shiuh Ueng, and Ming-Min Lei, Kansas State University

ON THE PARAMETRIC EXCITATION OF PENDULUM-TYPE VIBRATION ABSORBER
Eugene Sevin, Illinois Institute of Technology

Tuesday, August 29

9:00 a.m. - Session on ELASTODYNAMICS

DYNAMICAL STRESS CONCENTRATION IN AN ELASTIC PLATE
Y. H. Pao, Cornell University

WAVE PROPAGATION IN AN ELASTIC BEAM OR PLATE ON AN ELASTIC FOUNDATION
James R. Lloyd and Juliou Miklowitz, California Institute of Technology

GREEN'S FUNCTIONS FOR AXIALLY SYMMETRIC ELASTIC WAVES IN UNBOUND INHOMOGENEOUS MEDIA HAVING CONSTANT VELOCITY GRADIENTS
Joseph F. Hook, University of California at Los Angeles

LOAD MOVING WITH SUPER-SEISMIC SPEED OVER A LAYERED ELASTIC SOLID
Jerome L. Sackman, University of California

DYNAMIC MEMBRANE STRESSES IN A CIRCULAR ELASTIC SHELL
R. G. Payton, Avco Research and Advanced Development

2:00 p.m. - Session on VIBRATIONS OF SOLIDS

TRANSIENT RESPONSE OF A DYNAMIC SYSTEM UNDER RANDOM EXCITATION
Thomas K. Caughey and Henry J. Stumpf, California Institute of Technology

A NOTE ON A NEW STABILITY METHOD FOR THE LINEAR MODES OF NON-LINEAR TWO DEGREE OF FREEDOM SYSTEMS
Jack Porter and Cyril P. Atkinson, University of California

ON A CLASS OF OSCILLATIONS IN THE FINITE DEFORMATION THEORY OF ELASTICITY
James K. Knowles, California Institute of Technology

DYNAMIC STABILITY OF A PENDULOUS MISSIBLE SUSPENSION SYSTEM
V. Chobotov, Space Technology Laboratories, Inc.

ANALYSIS FOR CALCULATING LATERAL VIBRATION CHARACTERISTICS OF ROTATING SYSTEMS WITH ANY NUMBER OF FLEXIBLE SUPPORTS - PARTS I AND II
E. C. Koenig, T. G. Guenther, and D. C. Lovejoy, Allis Chalmers Manufacturing Co.

Wednesday, August 30

9:00 a.m. - GENERAL LECTURE

VARIATIONAL CONSIDERATIONS IN SHELL THEORY
Eric Reissner, Massachusetts Institute of Technology

10:15 a.m. - Session on SHELLS

NONSYMMETRIC DEFORMATION OF DOME SHAPED SHELLS OF REVOLUTION
C. R. Steele, Lockheed Missiles and Space Division

ON THE BUCKLING OF TRUNCATED CONICAL SHELLS IN TORSION
Paul Seide, Space Technology Laboratories, Inc.

OUT-OF-PLANE BUCKLING OF I-SECTION RINGS
John E. Goldberg, Purdue University

BOWING OF CRYOGENIC PIPELINES
W. G. Flieder, J. C. Loria, and W. J. Smith, Arthur D. Little, Inc.

10:15 a.m. - Session on DYNAMIC PLASTICITY, CRACK PROBLEMS

THE HUMP DEFORMATION PRECEDING A MOVING LOAD ON A LAYER OF SOFT MATERIAL
G. R. Abrahamson and J. N. Goodier, Stanford University

PERMANENT PERIODIC SURFACE DEFORMATIONS DUE TO A TRAVELING JET
G. R. Abrahamson, Stanford University

DYNAMIC STRESSES CREATED BY A MOVING CRACK
B. R. Baker, Lockheed Missiles and Space Division

CRACK TIP STRESS INTENSITY FACTORS FOR PLANE EXTENSION AND PLATE BENDING PROBLEMS
G. Sih, P. C. Paris, and F. Erdogan, Lehigh University

2:00 p.m. - Session on BEAMS AND PLATES

ON BEAMS ON ELASTIC FOUNDATIONS
F. Essenburg, Illinois Institute of Technology

BENDING OF BEAMS RESTING ON AN ELASTIC-ISOTROPIC SOLID
Aleksander Vesie, Georgia Institute of Technology

BENDING OF PLASTIC ON AN ELASTIC FOUNDATION
K. S. Pister and R. A. Westmann, University of California

VISCOELASTIC FOUNDATION OF THE WINKLER TYPE WITH SHEAR INTERACTION
Arnold D. Kerr, New York University

A METHOD FOR ANALYSING AXISYMMETRIC FLAT PLATES WITH COMPLICATING CONDITIONS
John E. Brook, U. S. Naval Postgraduate School

Professor Billy J. Hartz, Department of Civil Engineering, University of Washington, Seattle 55, Washington represents the EMD in arrangements for the Conference. The form at the end of this Newsletter may be used for advance registration.

September 5-6, 1961 - University of Illinois, Urbana, Illinois

SECOND CONFERENCE ON FUNDAMENTAL RESEARCH IN PLAIN CONCRETE, supported by the National Science Foundation and sponsored by the University of Illinois, ASCE, American Concrete Institute, Reinforced

Concrete Research Council, Portland Cement Association, and ASTM. General topics and discussion leaders are:

KINETICS OF HYDRATION OF PORTLAND CEMENT - Stephen Brunauer
RHEOLOGY OF CONCRETE - Sydney Greenberg
ORIGIN AND NATURE OF STRENGTH - Robert Philleo
FRACTURE - Boris Bresler
AGGREGATE REACTIONS - Bryant Mather

The Steering Committee is composed of: Clyde E. Kesler (Chairman), Leo H. Corning, Bryant Mather, Gene M. Nordby, Hubert Woods, Kenneth B. Woods, and John W. Murdock (Secretary). The Conference is to be held at the University of Illinois Conference Center, Robert Allerton Park, Monticello, Illinois. For additional information, contact Professor John W. Murdock, 107 Talbot Laboratory, University of Illinois, Urbana, Illinois.

September 6-8, 1961 - Michigan State University, East Lansing, Michigan

The Seventh Midwestern Conference on Fluid Mechanics and the Fifth Midwestern Conference on Soil Mechanics will be held at Kelly Center for Continuing Education, Michigan State University, East Lansing, Michigan. It is suggested that those interested in attending these Conferences drop a note to the Kelly Center requesting full particulars.

October 16-20, 1961 - Hotel Statler, New York, New York

1961 ANNUAL CONVENTION IN NEW YORK

A star array of papers and speakers has been promised by the New York Convention Committee for the annual ASCE meeting to be held in New York's Statler-Hilton Hotel, October 16-20. The theme of the convention will be "Metropolis—1980," and many of the papers being sponsored by nearly all of the technical divisions are related to this timely overall theme.

The luncheon speakers also will cover facets of the same theme. They are: Monday, Robert C. Weaver, Administrator of the Housing and Home Finance Agency, who will speak on "Urban Affairs"; Tuesday, Samuel S. Baxter, Water Commissioner and Chief Engineer of the Philadelphia Water Department, whose subject is "Utilities of the Future"; Wednesday, Austin J. Tobin, Executive Director, The Port of New York Authority, speaking on "Mass Transportation of People," and Thursday, Rex Whitton, Federal Highway Administrator, who will discuss "Urban Highways of the Future."

ANNUAL CONVENTION, ASCE. The following is the latest (July 11) information on scheduled technical sessions in which the EMD is directly involved:

Monday, October 16

Morning session - Theme: STRUCTURAL DYNAMICS
Presiding: Merit P. White, University of Massachusetts

9:15 a.m. - RAYLEIGH WAVE EFFECTS DUE TO A NUCLEAR BLAST ON AN ELASTIC HALFSPACE
Melvin L. Baron, Paul Weidlinger Associates, and C. Lecht

9:45 a.m. - DYNAMIC RESPONSE OF CONTINUOUS HIGHWAY BRIDGES
Tseng Huang and Anestis S. Veletsos, University of Illinois

10:15 a.m. - (Tentative) EFFECT OF JOINT ROTATION ON DYNAMICS OF STRUCTURES
M. F. Rubinstein and Walter C. Hurty, University of California

Afternoon session - Theme: PLASTICITY
Presiding: William J. Hall, University of Illinois, and Robert M. Haythornthwaite, University of Michigan

2:00 p.m. - THE POST-BUCKLING STRENGTH OF WIDE-FLANGED BEAMS
George C. Lee and Theodore V. Galambos, Lehigh University

2:30 p.m. - ANALYSIS OF FRAMES LOADED INTO THE PLASTIC RANGE
Morris Ojalvo and Le-Wu Lu, Lehigh University

3:00 p.m. - EXPERIMENT AND THEORY ON YIELDING AT VARYING LOAD RATES
Anthony M. DiGioia and Ralph G. Crum, Carnegie Institute of Technology

3:30 p.m. - Discussion

Tuesday, October 17

Morning session, sponsored jointly with the Structural Division -

Theme: TEACHING OF MATERIALS IN CIVIL ENGINEERING
Presiding: Clyde E. Kesler, University of Illinois, and Robert D. Dewell, Consulting Engineer

9:00 a.m. - Keynote address: SIGNIFICANT ASPECTS OF MATERIALS BEHAVIOR
J. M. Frankland, National Bureau of Standards
Discussion

10:00 a.m. - MECHANICAL BEHAVIOR OF ENGINEERING MATERIALS
Joseph Marin, Pennsylvania State University

10:20 a.m. - STRUCTURAL DESIGN AS A PATTERN FOR MATERIALS INSTRUCTION
Lawrence H. vanVlack, University of Michigan

10:40 a.m. - MACRO-MICROSCOPIC APPROACH
Herbert T. Corten, University of Illinois

11:00 a.m. - Discussion

Afternoon session, sponsored jointly with Structural Division

Theme: A REAPPRAISAL OF ANALOG COMPUTATION
Presiding: D. Whitman, Jr., Consulting Engineer, and John E. Goldberg, Purdue University

2:00 p.m. - WHAT IS AN ANALOG COMPUTER?
M. A. Brull, University of Pennsylvania

2:35 p.m. - APPLICATION OF PASSIVE ANALOG COMPUTER TO STRUCTURAL AND ENGINEERING MECHANICS PROBLEMS
R. H. MacNeal, Computer Engineering Association, Inc.

3:20 p.m. - APPLICATION OF ACTIVE ANALOG COMPUTER TO STRUCTURAL AND ENGINEERING MECHANICS PROBLEMS
R. Howe, University of Michigan

3:55 p.m. - CAN DIGITAL COMPUTER BE USED EFFECTIVELY TO SOLVE ANALOG COMPUTER TYPE PROBLEMS?
H. R. Greenberg, IBM Research Center

4:30 p.m. - Panel Discussion

Thursday, October 19

Afternoon session - Tentative program

Theme: RESEARCH IN CIVIL ENGINEERING
Presiding: Ralph E. Fadum, North Carolina State College

RELATION OF THE NATIONAL RESEARCH EFFORT TO THAT IN CIVIL ENGINEERING
Edward Wenk, Jr., Federal Council for Science and Technology
THE SIGNIFICANCE OF RESEARCH TODAY
Gordon S. Brown, Massachusetts Institute of Technology
THE ROLE OF THE SOCIETY IN SUPPORTING RESEARCH
Elmer K. Timby, Howard, Needles, Tammen, and Bergendoff

Friday, October 20

Afternoon session - Theme: TURBULENT DIFFUSION
Presiding: Jack E. Cermak, Colorado State University, and Gerald T. Orlob, University of California

2:00 p.m. - THE EXPERIMENTAL RELATION BETWEEN TURBULENT DIFFUSION AND HOT-WIRE ANEMOMETER MEASUREMENTS
L. V. Baldwin and W. R. Mickelson, National Aeronautics and Space Administration

2:30 p.m. - THE MIXING OF A TURBULENT WALL JET INTO A UNIFORM FREE STREAM
S. Eskinasi, Syracuse University

3:00 p.m. - SCALE FACTORS IN SIMULATING SNOW IN A WIND TUNNEL
Fuat Odar, U. S. Army SIPRE

3:30 p.m. - TURBULENT DIFFUSION IN A VARIABLE DENSITY FLUID
Donald R. F. Harleman and D. W. McDougal, Massachusetts Institute of Technology

Watch Civil Engineering for the full Convention program. EMD members may be particularly interested in the Thursday afternoon session devoted to Research, the first such session in this Division.

October 29-31, 1961 - Illinois Institute of Technology, Chicago, Illinois

INTERNATIONAL SYMPOSIUM ON PHOTOELASTICITY, sponsored by Illinois Institute of Technology, Office of Ordnance Research-U. S. Army, National Science Foundation, Society for Experimental Stress Analysis, Office of Naval Research, Office of Scientific Research-U. S. Air Force, Applied Mechanics Division of ASME, and the Chicago Sections of SESA, ASME, and ASCE.

April, 1962 - University of Texas, Austin, Texas

SPECIAL EMD CONFERENCE. The tentative program includes two sessions under the general topic ELASTICITY, two under FLUID DYNAMICS, one under PLASTICITY, and one under the new title STABILITY. The Newsletter will carry detailed information on this meeting in future issues. Professor Walter L. Moore, Department of Civil Engineering, University of Texas, Austin, Texas is handling general arrangements for EMD.

June 18-21, 1962 - University of California, Berkeley, California

FOURTH U. S. NATIONAL CONGRESS OF APPLIED MECHANICS, under the auspices of the U. S. National Committee on Theoretical and Applied Mechanics, a joint committee of the American Institute of Chemical Engineers, the American Mathematical Society, the American Physical Society, ASCE, ASME, the Institute of the Aerospace Sciences, and the Society for Experimental Stress Analysis. The Editorial Committee has invited research workers to submit papers for possible presentation at the Congress. Such papers must be submitted by January 1, 1962 (preferably earlier). Further information is available in the June 1961 EMD Newsletter or the June 1961 Structural Division Newsletter or from: W. Goldsmith, Applied Mechanics, University of California, Berkeley 4, California.

NEW PUBLICATIONS

ASCE Manual No. 42: DESIGN OF STRUCTURES TO RESIST NUCLEAR WEAPON EFFECTS, prepared under the direction of the EMD Committee on Structural Dynamics, is now available. The coupon at the end of the Newsletter can be used to obtain a copy.

REVIEW VOLUMES IN ENGINEERING GEOLOGY, VOLUME 1, Thomas Fluhr and R. F. Legget, Editors, will be issued by The Geological Society of America, 419 West 117 Street, New York 27, New York in September. This volume contains eight papers covering the following fields: petrography applied to portland-cement concrete, photo analysis and interpretation in engineering geology, sand and gravel, engineering geology of radioactive waste material, rock bolting, engineering seismology, recent U. S. S. R. publications in selected fields of engineering soil science, engineering aspects of sediment transport. The retail price: $6.00 until September 1, 1961, $7.00 thereafter. Remittance with order is requested.

NEW APPOINTMENTS

Dr. Edward Wenk, Jr., who has served for three years as Secretary of the Engineering Mechanics Division, will be succeeded in October by Professor Donald Dean, who has been EMD Newsletter Editor. In order to effect a more gradual transition in responsibilities, those transactions concerned with the processing of papers for the EMD Journal are now being handled by Professor Dean. His address is: Chairman, Department of Civil Engineering, University of Delaware, Newark, Delaware. Authors submitting papers to the Society should continue to address such papers to Mr. Harold Larsen, Manager of Technical Publications, ASCE, 33 West 39 St., New York 18, N. Y.

Dr. Wenk has recently been appointed an assistant to the President's Science Advisor, Dr. Jerome B. Wiesner, and will serve as Executive Secretary of the Federal Council for Science and Technology. His new address: Executive Office Building, The White House, Washington, D. C.

Professor Dean, in turn will be succeeded as Newsletter Editor by Professor Martin R. Brown, Jr., Rensselaer Polytechnic Institute. To effect, again, a gradual transition, the present and future Newsletters will be handled by Professor Brown.

TO BE NOTED

The theme of the ASCE Detroit Convention, October 8-12, 1962 will be: TRANSPORTATION, and the theme of the San Francisco Convention, October 7-11, 1963 will be: STRUCTURES.

The death of Professor Eduardo Torroja in Madrid on June 15, 1961.

WE SOLICIT . . . .

Short technical notes, to be processed in the same manner as longer papers, for publication in the EMD Journal.

Editorial comment for inclusion in the EMD Newsletter.

News of appointments, honors, or awards, ASCE or not, affecting persons in the field of engineering mechanics. A hasty sentence on post card will do, really.

Information on forthcoming meetings of possible interest to the EMD membership.

Any other news concerning engineering mechanics. Deadline for items to be included in the October Newsletter: September 11.

Mail any of the above items to: Professor Martin R. Brown, Jr., Department of Civil Engineering, Rensselaer Polytechnic Institute, Troy, N. Y.

NEW ASCE TRANSACTIONS SOON TO GO TO PRESS

In mid-May all society members received a brochure describing the revamping that the TRANSACTIONS are undergoing. Since that time thousands of orders have been received, but still more should have reached us.

Beginning with Volume 126 (1961), TRANSACTIONS will be issued as a standard set of five parts, containing all Division Journal papers, according to the following schedule:

Part I	Engineering Mechanics, Hydraulics, Soil Mechanics and Foundations
Part II	Construction, Structural
Part III	Irrigation and Drainage, Power, Sanitary Engineering
Part IV	Air Transport, City Planning, Highway, Pipeline, Surveying and Mapping, Waterways and Harbors
Part V	Professional Practice

Members of ASCE can enter standing orders to any one, or more, of Parts I through IV at $3.50 each per year; the price for Part V will be $2.00 per year. Members can effect a considerable saving by subscribing to all five parts—the total price of $16.00 is reduced to $10.00.

Part V is reserved for the papers published in the Journal of Professional Practice, which is of interest to all members, regardless of their technical specialties. Part V will also contain the President's Annual Address, abstracts of the memoirs of deceased members, Final Reports of Committees in the Department of Conditions of Practice, and combined subject and author indexes for Parts I through V.

The TRANSACTIONS will be mailed in December of each year and the bills will be sent out at that time.

Use the coupon below to place your order. Please do not send in a coupon if you previously mailed the original order card.

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Please enter my standing order for the New ASCE TRANSACTIONS (beginning with Vol. 126, 1961) as follows (Do not prepay):

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Parts I thru V	_____@$10.00	_____@$20.00

Signature:_____

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Name (Please Print)

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Mailing Address

_____

_____
City Zone State

ASCE MANUAL NO. 42—DESIGN OF STRUCTURES TO RESIST NUCLEAR WEAPONS EFFECTS

As a project of the Committee on Structural Dynamics of the Engineering Mechanics Division, through its Manual Subcommittee this Manual (No. 42) has been in preparation for several years. It was written for use of the engineering profession in the design of structures which are intended to be resistant in some degree to all of the effects associated with the detonation of a nuclear weapon. Copies of this paper-bound Manual can be obtained by completing the accompanying coupon. The list price is $4.00 and ASCE members are entitled to a 50% discount.

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American Society of Civil Engineers
33 West 39th Street, New York 18, N. Y.

Please send me _____ copies of Manual 42, Enclosed is my remittance of $_____. My ASCE membership grade is _____.

Name_____
(print Name)

Street_____

City_____ Zone_____ State_____

M42

RESEARCH CONFERENCE ON SHEAR STRENGTH OF COHESIVE SOILS

The papers presented at the ASCE Research Conference on Shear Strength of Cohesive Soils held at the University of Colorado, in June 1960, have been published in a single hardbound volume. The book contains the Foreword, Conference Program, Photographic Report, Opening Address, and all 26 Conference Papers. Also included are the written discussions and closures, and the reports by the moderators of panel sessions. The book has been prepared in an attractive cloth binding and is complete with a Table of Contents - Subject Index and Index of Authors and Discussers.

The list price for this volume is $10.00 per copy (net); no discounts are available.

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American Society of Civil Engineers
33 West 39th St., New York 18, N. Y.

Please send _____ copy(s) of the Research Conference on Shear Strength of Cohesive Soils.

The amount enclosed is $_____.

Name_____
(Please Print)

Address_____

City_____ Zone_____ State_____

...S.S.

ADVANCE REGISTRATION

WEST COAST CONFERENCE OF APPLIED MECHANICS

Upon receipt of this form, a campus map, scenic guide, transportation information, and information on accomodations available in nearby hotels and motels will be mailed to you.

Name (please print):_____

Affiliation:_____

Mailing address:_____

_____

_____

CONFERENCE FEES:

Registration fee of $3.00 enclosed_____

Registration fee waived (author)_____

Registration fee waived (student)_____

Applied Mechanics Luncheon, $3.00 enclosed_____

Boeing Tour and Dinner (no charge)_____

Note: Please make checks payable to Billy J. Hartz

DORMITORY ACCOMMODATIONS:

Accommodations will be available for individuals and for families, providing there are no children under age 9. The accomodations are in the men's residence halls. The rates are: Single Room - $3.50; Double Room - $2.50 each, payable directly to the University Residence Halls upon checking in. Arrivals must be before 11:00 p.m. For reservations, fill out the following form:

Arrival Date_____

Departure Date_____

Number of persons to be accommodated_____

MAIL TO:

West Coast Conference of Applied Mechanics, Office of Short Courses and Conferences, 327 Lewis Hall, University of Washington, Seattle 5, Washington